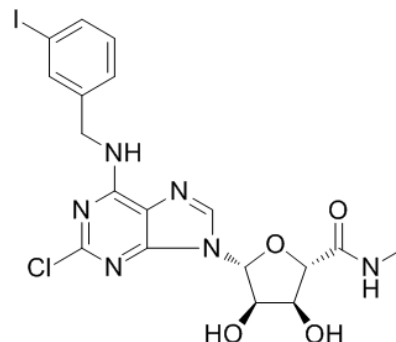


Product Name : 2-Cl-IB-MECA
Cat. No. : PC-43007
CAS No. : 163042-96-4
Molecular Formula : C₁₈H₁₈ClIN₆O₄
Molecular Weight : 544.7308
Target : Adenosine Receptor
Solubility : DMSO: ≥ 31 mg/mL



Biological Activity

2-Cl-IB-MECA (Chloro-IB-MECA, CF-102, Namodenoson) is a potent, selective **A3 adenosine receptor** (A3AR) agonist with K_i of 0.33 nM, 2500- and 1400-fold selectivity over A1 and A2a receptors.

2-Cl-IB-MECA also displays 46,000-fold selectivity versus the Na(+)-independent adenosine transporter.

2-Cl-IB-MECA inhibits adenylate cyclase via rat A3 receptors in CHO cells (IC₅₀=67 nM).

2-Cl-IB-MECA induces apoptosis in HL-60 cells at concentrations of <30 μM, significantly induced Ca(2+) release from intracellular Ca(2+) pools followed by Ca(2+) influx.

2-Cl-IB-MECA increases plasma histamine concentrations in conscious rats.

References

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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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